

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 May 2003 (15.05.2003)

PCT

(10) International Publication Number
WO 03/039443 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number: PCT/EP02/12303

(22) International Filing Date:
4 November 2002 (04.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
01126244.1 5 November 2001 (05.11.2001) EP
02009758.0 30 April 2002 (30.04.2002) EP

(71) Applicants (for all designated States except US):
DEUTSCHES KREBSFORSCHUNGSZENTRUM [DE/DE]; Im Neuenheimer Feld 280, 69120 Heidelberg (DE). **LUDWIG-MAXIMILIANS -UNIVERSITÄT** [DE/DE]; Geschwister-Scholl-Platz 1, 80539 Munich (DE).

(71) Applicants and

(72) Inventors: **HAERLACH, Torsten** [DE/DE]; Springerstrasse 8, 81477 Munich (DE). **SCHOCH, Claudia** [DE/DE]; Springerstrasse 8, 81477 Munich (DE). **KERN, Wolfgang** [DE/DE]; Hanfelder Strasse 101, 82319 Starnberg (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KOHLMANN, Alexander** [DE/DE]; Schwarzstrasse 14, 92318 Neumarkt (DE). **SCHNITTGER, Susanne** [DE/DE]; Saalburgstrasse 2a, 81375 Munich (DE). **DUGAS, Martin**

[DE/DE]; Am Heidebruch 6, 81377 Munich (DE). **EILS, Roland** [DE/DE]; Strahlenberger Strasse 26, 69198 Schriesheim (DE). **BRORS, Benedikt** [DE/DE]; Im Linsenbühl 42, 69221 Dossenheim (DE). **MERGEN-THALER, Susanne** [DE/DE]; Grubmühlerfeldstr. 19, 82131 Gauting (DE).

(74) Agent: **VOSSIUS & PARTNER**; Siebertstrasse 4, 81675 Munich (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/039443 A2

(54) Title: NOVEL GENETIC MARKERS FOR LEUKEMIAS

(57) Abstract: The present invention is related to methods for detecting leukemia cells by determining the expression profile of a group of markers. In particular, the type or subtype of leukemia cells in a sample is determined. Further, uses of the group of markers is disclosed and compositions comprising these markers.